

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inv ntor(s): Zhang-Lin Zhou et al

Confirmation No.:

Application No.:

Examiner:

Filing Date: Herewith

Group Art Unit:

Title: METHODS OF PREPARING LATEX PARTICULATES WITH REACTIVE FUNCTIONAL GROUPS

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e)(1) or (2), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

☒ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 7/28/03

OR

☐ I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number \_\_\_\_\_ on \_\_\_\_\_  
Number of pages: \_\_\_\_\_

Typed Name: W. Bradley Haymond

Signature: W. Bradley Haymond

Respectfully submitted,

Zhang-Lin Zhou et al

By W. Bradley Haymond  
W. Bradley Haymond

Attorney/Agent for Applicant(s)  
Reg. No. 35,186

Date: 7/28/03

Telephone No.: (541) 715-0159

**PATENT APPLICATION**

Sheet 1 of 1

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. <b>200209757-1</b>	APPLICATION NO.	CONFIRMATION NO.
	APPLICANT <b>Zhou et al.</b>		
	FILING DATE	GROUP	

**REFERENCE DESIGNATION U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

1Q	Ganachaud, F., F Sauzedde, A. Elaissari, and C. Pichot, "Emulsifier-Free Emulsion Copolymerization of Styrene with Two Different Amino-Containing Cationic Monomers. I. Kinetic Studies," JOURNAL OF APPLIED POLYMER SCIENCE, Vol. 65, 2315-2330 (1997)
1R	Cousin, P. and P. Smith, "Synthesis and Characterization of Styrene-Based Microbeads Possessing Amine Functionality," JOURNAL OF APPLIED POLYMER SCIENCE, Vol. 54, 1631-1641 (1994)
1S	Basinska, T. and S. Slomkowski, "Attachment of horseradish peroxidase (HRP) onto the poly(styrene/acrolein) latexes and onto their derivatives with amino groups on the surface; activity of immobilized enzyme," COLLOID POLYM SCI 273:431-438 (1995)

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	2A				
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	2L					
	2M					
	2N					
	2O					
	2P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

2Q	Covolan, Vera L., Lucia H. Innocentini Mei and Claudio L. Rossi, "Chemical Modifications on Polystyrene Latex: Preparation and Characterization for Use in Immunological Applications," POLYMERS FOR ADVANCED TECHNOLOGIES Vol. 8, pp. 44-50.
2R	Quash, G., Anne-Marie Roch, A. Niveleau, J. Grange, T. Keolouangkhot and J. Huppert, "The Preparation of Latex Particles with Covalently Bound Polymines, IgG and Measles Agglutinins and Their Use in Visual Agglutination Tests," JOURNAL OF IMMUNOLOGICAL METHODS, 22 (1978) 165-174.
2S	Molday, Robert S., William J. Dreyer, Alan Rembaum, and S.P.S. Yen, "New Immunolatex Spheres: Visual Markers of Antigens on Lymphocytes for Scanning Electron Microscopy," THE JOURNAL OF CELL BIOLOGY, Vol. 64, 1975, pp. 75-88.

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